

SOUTH-CENTRAL AND SOUTHERN CALIFORNIA STEELHEAD ESU RECOVERY PLAN - THREATS ASSESSMENT

WORKBOOK SHEET 2 - RATING STRESSES AND IDENTIFYING SOURCES OF STRESS

County and Stream or Stream Reach (be specific):

Life History Stage	Stresses	Severity	Scope	Sources of Stress	Contribution	Irreversibility
Egg	Altered flow regime					
Egg	Lowered groundwater levels (increased extraction)					
Egg	Increased sedimentation					
Egg	Increased scour frequency					
Egg	Increased water temperature					
Egg	Altered pH levels					
Egg	Decreased dissolved oxygen content					
Egg	Increased bio-oxygen demand					
Egg	Presence of non-native predators					
Egg	Increased Total Dissolved Solids (TDS) concentrations					
Fry	Presence of movement barriers					
Fry	Degraded food resources					
Fry	Altered flow regimes					
Fry	Lowered groundwater levels (increased extraction)					
Fry	Increased sedimentation					
Fry	Increased turbidity					
Fry	Increased water temperature					
Fry	Altered pH levels					
Fry	Decreased dissolved oxygen content					
Fry	Increased bio-oxygen demand					
Fry	Decreased instream cover (boulders, undercut banks, etc.)					
Fry	Decreased or degraded edgewater habitat					
Fry	Presence of non-native predators					
Fry	Increased Total Dissolved Solids (TDS) concentrations					
Juvenile	Presence of movement barriers					
Juvenile	Degraded food resources					
Juvenile	Altered flow regimes					
Juvenile	Lowered groundwater levels (increased extraction)					
Juvenile	Increased sedimentation					
Juvenile	Loss of pool habitat (distribution and abundance)					
Juvenile	Loss of riffle habitat (distribution and abundance)					
Juvenile	Decreasing pool depth					
Juvenile	Increased Total Dissolved Solids (TDS) concentrations					

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Juvenile	Altered pH levels					
Juvenile	Decreased dissolved oxygen content					
Juvenile	Increased bio-oxygen demand					
Juvenile	Increased turbidity					
Juvenile	Increased water temperature					
Juvenile	Loss of instream cover (boulders, undercut banks, etc.)					
Juvenile	Degraded riparian corridor width					
Smolt	Presence of movement barriers to estuary or ocean					
Smolt	Degraded food resources					
Smolt	Altered flow regimes					
Smolt	Lowered groundwater levels (increased extraction)					
Smolt	Loss of pool habitat (distribution and abundance)					
Smolt	Decreasing pool depth					
Smolt	Loss or degradation in size and quality of estuary or terminal lagoon					
Smolt	Altered pH levels					
Smolt	Decreased dissolved oxygen content					
Smolt	Increased turbidity					
Smolt	Increased water temperature					
Smolt	Loss of instream cover (boulders, undercut banks, etc.)					
Adult	Presence of migration barriers					
Adult	Degraded food resources (for residualized fish)					
Adult	Altered flow regimes					
Adult	Lowered groundwater levels (increased extraction)					
Adult	Loss of pool habitat (distribution and abundance)					
Adult	Decreasing pool depth					
Adult	Altered pH levels					
Adult	Decreased dissolved oxygen content					
Adult	Increased turbidity					
Adult	Increased water temperature					
Adult	Loss of instream cover (boulders, undercut banks, etc.)					